



**Supplementary Figure 1. Injection of lenti-NT-3 virus results in NT-3 expression by vector-transduced cells.** Immunohistochemistry for NT-3 indicates high NT-3 levels within the nucleus gracilis in (a and b) animals that received high titer lenti-NT-3 injections, while (c and d) no appreciable immunohistochemical signal can be detected in animals that received lenti-GFP injections. (b and d) Higher magnification images of panels a and c, respectively. Scale bars: a,c, 200  $\mu$ m; b,d, 50  $\mu$ m.